## REMARKS

This is meant to be a complete response to the Notice to File Missing Parts of NonProvisional Application mailed June 25, 2001. In the Notice to File Missing Parts, it was noted that the oath or declaration was missing. In addition, the application was considered informal since it does not comply with the regulations, and the required items identified below were required to be timely submitted to avoid abandonment:

- (1) substitute drawings in compliance with 37 CFR 1.84 because the drawing sheets did not have the appropriate margins;
- (2) a statement that the content of the sequence listing information recorded in computer readable form is identical to the written sequence listing and, where applicable, includes no new matter;
- (3) a substitute computer readable form (CRF) copy of the Sequence Listing, as the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written sequence listing and, where applicable, includes no new matter.

In response to the Notice to File Missing Parts, submitted herewith are a properly signed oath/declaration in compliance with 37 CFR 1.63 and formal Drawings having the appropriate margins.

Also in response to the Notice to File Missing Parts, the Sequence Listing submitted on Pages 139-207 of the Specification and in Computer Readable Form, was reviewed. In addition to the fact that such copies of the Sequence Listing did not comply with the requirements of 37 CFR 1.822 and/or 1.823, as noted in the Notice to File Missing Parts, it was noted that no SEQ ID NO:37 appeared in the Sequence Listing or the disclosure contained in the Specification. Therefore, a substitute written copy of the Sequence Listing is submitted herewith in compliance with 37 CFR 1.825. Such substitute Sequence Listing has been amended to fully comply with 37 CFR 1.822 and 1.823, and SEQ ID NOs:38-57 have been renumbered as SEQ ID NOs:37-56. The substitute written copy of the Sequence Listing contains no new matter. In addition, a substitute copy of the Computer Readable Form of the Sequence Listing is submitted herewith which includes all previously submitted data and has been amended to fully comply with 37 CFR 1.822 and 1.823, and SEQ ID NOs:38-57 have been renumbered as SEQ ID NOs:37-56. The substitute copy of the Sequence Listing in computer readable form is identical to the substitute copy of the Sequence Listing in written form submitted herewith.

In addition, the Specification has been amended herein to renumber SEQ ID NOs:38-57 as SEQ ID NOs:37-56, for the reasons explained herein above in regards to the Sequence Listing. No substantive changes have been made in the application and such amendments do not introduce any new matter. Applicant respectfully requests that such amendments be entered into the

record.

Should the Examiner have any questions or comments concerning the before-mentioned amendments to the application or any other matter, Applicant's agent will welcome the opportunity to discuss same with the Examiner.

Respectfully submitted,

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Agent for Applicant

# MARKED-UP VERSION OF THE PARAGRAPHS OF THE SPECIFICATION SHOWING THE CHANGES MADE THERETO

## Table III Oligonucleotide Primers Used for RT-PCR Analysis and DNA Sequencing

Primer	SEQ ID _NO:	Sequence	Proc	luct Se	Peptide equences enfirmed_
BAB1F HSP2R	5 7	TCAATATAATCTGGCGAATGCAAT AGTTCCGAATGGGCAGGTCAGCTC	3-26 397-420	418	3
BAB3F BAB4R	26 29	ATGAGGAAGCTCGGGTTAAAG GATGTAGCCATTGTTTGTTGCCAA	1452-1472 1769-1792	341	2
HSP2F HSP3R	33 35	GAGCTGACCTGCCCATTCGGAACT CTTTAACCCGAGCTTCCTCAT	397-420 1452-1472	1076	4
BAB6F BAB7R	30 31	AGACGCCAAATGTGTCGACCTCCA GAATAGGCCAGCACTTCCGTCAGG	3078-3101 3510-3533	456	2
BAB1F BAB10R	5 32	TCAATATAATCTGGCGAATGCAAT GGTGAGGCAGTTGGCGCTGGTATG	3-26 851-874	872	3
HSP2F BAB10R	33 32	GAGCTGACCTGCCCATTCGGAACT GGTGAGGCAGTTGGCGCTGGTATG	397-420 851-874	478	3
BAB10F HSP3R	34 35	CATACCAGCGCCAACTGCCTCACC CTTTAACCCGAGCTTCCTCAT	851-874 1452-1472	622	3
BAB9F HSP3R	36 35	CAAGTACGGCATCCACTGTGACCA CTTTAACCCGAGCTTCCTCAT	697-720 1452-1472	776	3
Other Pr	imers used 1	or RT-PCR and sequencing.			
Name SEQ ID NO:		Sequence	Position		
5F [38] <u>37</u> 5R [39] <u>38</u>		GGCTACTTCGGGCGAGACTGTCAG CTGACAGTCTCGCCCGAAGTAGCC	2386-2409 2386-2409		
-	10] <u>39</u> 6	TTGTACTCTTCAGCTGGCACC GGTGCCAGCTGAAGAGTACAA	4406-4426 4406-4426		

### Table IV

## Summary of Amino Acid Sequences Derived From Peptides of the

### Purified Human 190 kDa HARE Protein

The human HARE proteins were immuno-affinity-purified from human spleen, subjected to SDS-PAGE and the 190 kDa protein band was excised and analyzed for internal peptide sequence following trypsin digestion. The amino acid sequences of these ten tryptic peptides were highly homologous or identical to the sequences of the rat 175 kDa HARE, reported herein above, and seven of these (not in bold face) were identical to regions within a human hypothetical protein of unknown expression and unknown function under GenBank accession number BAB15793. HARE peptides in boldface were not in the ORF for BAB15793.

Peptide Designation	Amino Acid Sequences	Start-End Residue	SEQ ID NO:
PR 1822 PR 1823 PR 1825-1 <sup>st</sup> PR 1825-2 <sup>nd</sup> PR 1826 PR 1869-1 <sup>st</sup> PR 1869-2 <sup>nd</sup> PR 1870	XSKPK LTFDK GSIYQELPK GTLFVPQNSGLGE DLVGPGPFTVFAPLSAAFDEEAF <b>ELTSPFGTK</b> MPQVLR SPLGQYK	758-761 1054-1058 440-448 1198-1210	[41] <u>40</u> [42] <u>41</u> [43] <u>42</u> [44] <u>43</u> [45] <u>44</u> [46] <u>45</u> [47] <u>46</u> [48] <u>47</u> [49] <u>48</u>
	VLEIQK VIHGLGK	100-112	[50] <u>49</u>

Table V

## Molecular Mass Mapping of Peptides Derived From the

## Human 190 kDa HARE Protein

The molecular masses of seven peptides derived from tryptic digestion of the purified human 190 kDa HARE protein were determined by MALDI-TOF mass spectrometry at the Louisiana State University Protein Chemistry Facility corresponded with perfect identity to deduced sequences within a predicted human protein of unknown function (accession number BAB15793). The monoisotopic peptide masses were searched against entries in the database, using PeptideSearch software from the EMBL Protein and Peptide Group. Identical masses are assigned in this search if the difference between the observed and predicted (calculated) masses for a peptide is < 0.2 Da. The corresponding starting and ending residues for each peptide within the deduced protein sequence is shown. The N-terminal R or K residues in parentheses indicate the deduced residue in the protein and confirm that trypsin digestion occurred on the C-terminal side of those amino acids as expected.

Measured Mass (Da)	Calculated Mass (Da)	Mass Difference (Da)	Start-End Residues	Sequence in Sequenced Human	SEQ ID NO:
599.273	599.294	-0.021	796-800	(K)GYFGR	[51] <u>50</u>
671.384	671.399	-0.015	656-660	(K)FHVIR	[52] <u>51</u>
792.621	792.426	0.195	1047-1053	(R)SPLGQYK	[53] <u>52</u>
1034.621	1034.552	0.068	440-448	(R)GSIYQELPK	[54] <u>53</u>
1061.781	1061.584	0.196	677-686	(K)TLQGSELSVK	[55] <u>54</u>
1624.051	1623.886	0.165	1047-1060	(R)SPLGQYKLTFDK	AR [56] <u>55</u>
1092.771	1092.588	0.183	495-503	(K)YGLMPQVLR	[57] <u>56</u>